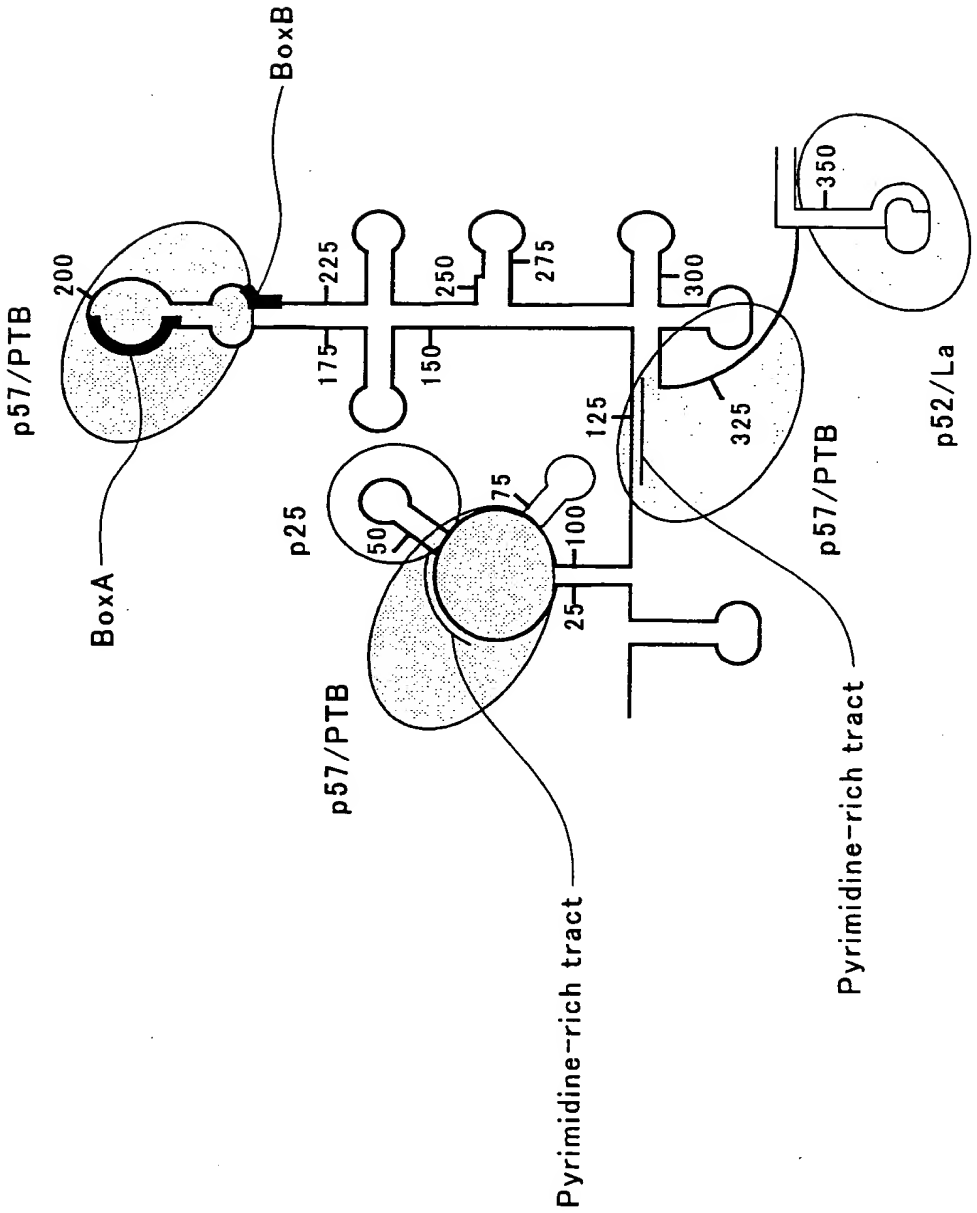
BoxB
200
225
250
275
300
350
p57/PTB
175
150
125
325
p52/La
BoxA
p25
75
50
100
p57/PTB
25
Pyrimidine-rich tract
Pyrimidine-rich tract

Fig. 1

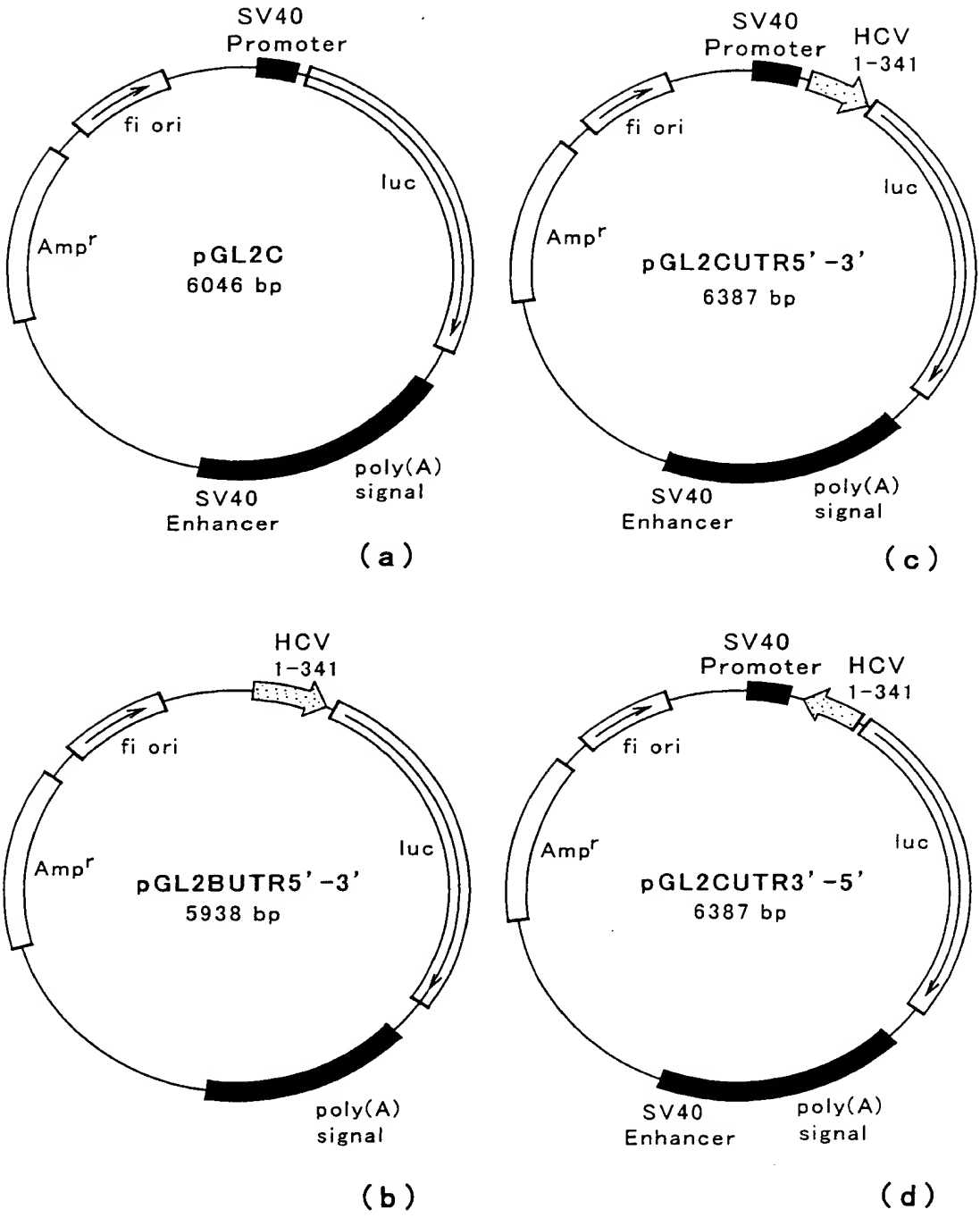
SV40
Promoter
fi ori
luc
Amp^r
pGL2C
6046 bp
poly(A)
signal
SV40
Enhancer
(a)
SV40
Promoter
HCV
1-341
fi ori
luc
Amp^r
pGL2CUTR5'-3'
6387 bp
SV40
Enhancer
poly(A)
signal
(c)
HCV
1-341
fi ori
luc
Amp^r
pGL2BUTR5'-3'
5938 bp
poly(A)
signal
(b)
SV40
Promoter
HCV
1-341
fi ori
luc
Amp^r
pGL2CUTR3'-5'
6387 bp
SV40
Enhancer
poly(A)
signal
(d)

Fig. 2

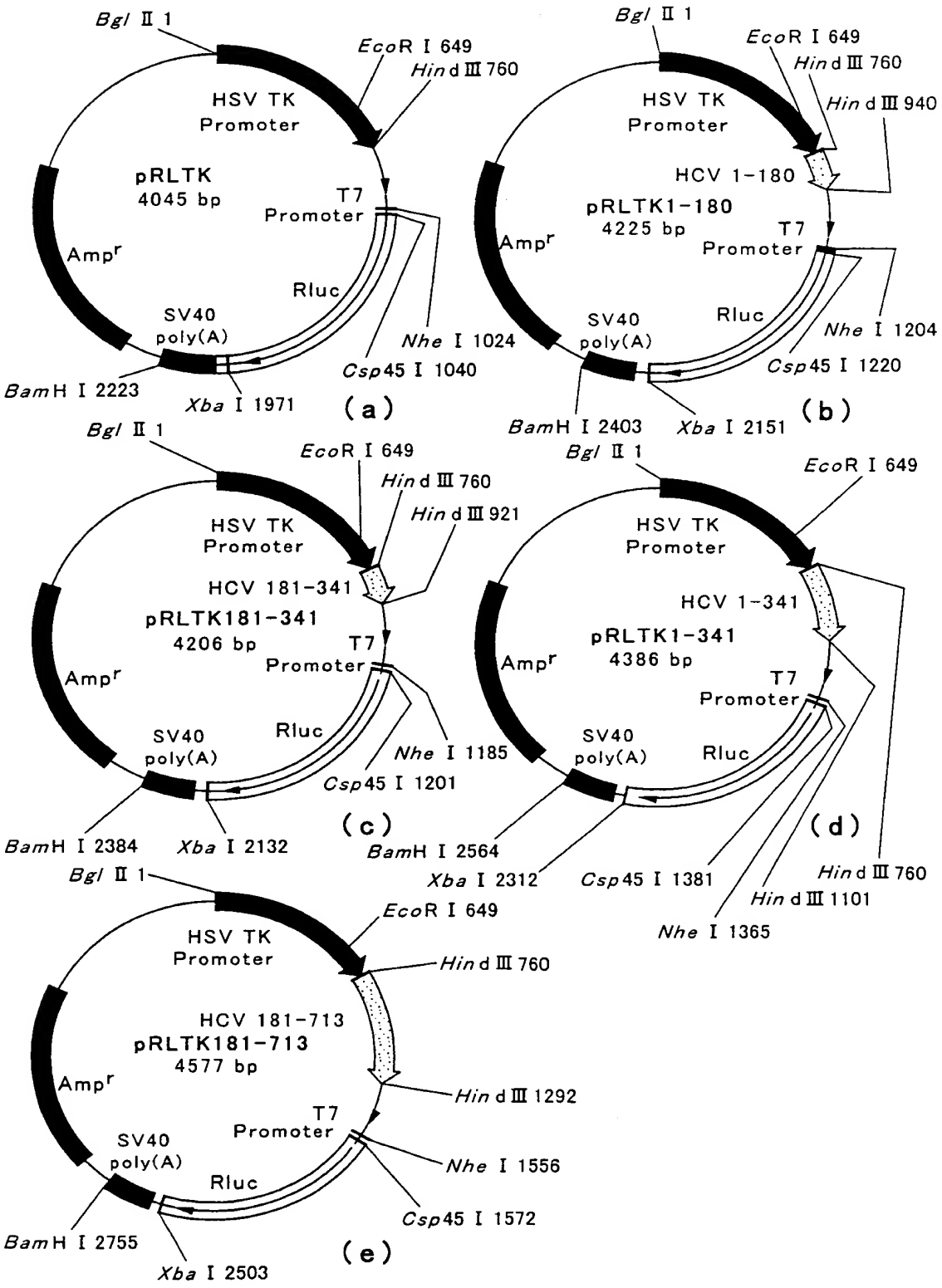
Bgl II 1
EcoR I 649
Hind III 760
HSV TK Promoter
pRLTK
4045 bp
T7 Promoter
Ampr
Rluc
SV40 poly(A)
Nhe I 1024
Csp45 I 1040
BamH I 2223
Xba I 1971
(a)
Bgl II 1
EcoR I 649
Hind III 760
Hind III 940
HSV TK Promoter
HCV 1-180
pRLTK1-180
4225 bp
T7 Promoter
Ampr
SV40 poly(A)
Rluc
Nhe I 1204
Csp45 I 1220
BamH I 2403
Xba I 2151
(b)
Bgl II 1
EcoR I 649
Hind III 760
Hind III 921
HSV TK Promoter
HCV 181-341
pRLTK181-341
4206 bp
T7 Promoter
Ampr
SV40 poly(A)
Rluc
Nhe I 1185
Csp45 I 1201
BamH I 2384
Xba I 2132
(c)
Bgl II 1
EcoR I 649
HSV TK Promoter
HCV 1-341
pRLTK1-341
4386 bp
T7 Promoter
Ampr
SV40 poly(A)
Rluc
BamH I 2564
Xba I 2312
Csp45 I 1381
Hind III 760
Hind III 1101
Nhe I 1365
(d)
Bgl II 1
EcoR I 649
HSV TK Promoter
Hind III 760
HCV 181-713
pRLTK181-713
4577 bp
Ampr
Hind III 1292
T7 Promoter
SV40 poly(A)
Nhe I 1556
Rluc
Csp45 I 1572
BamH I 2755
Xba I 2503
(e)

Fig. 3

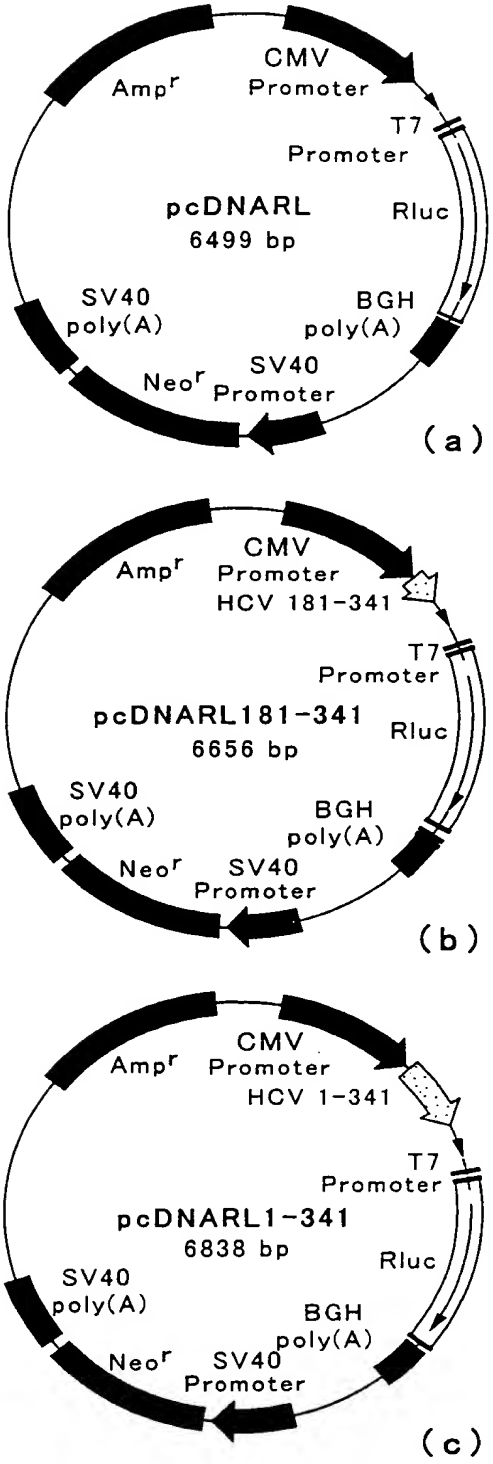

Fig. 4

EP0956295A2

```
5'-UTR341 GCCAGCCCCC TGATGGGGGC GACACTCCAC CATAGATCAC TCCCCTGTGA  50
5'-UTR342 GCCAGCCCCC TGATGGGGGC GACACTCCAC CATAGATCAC TCCCCTGTGA  50

5'-UTR341 GGAACTACTG TCTTCACGCA GAAAGCGTCT AGCCATGGCG TTAGTATGAG 100
5'-UTR342 GGAACTACTG TCTTCACGCA GAAAGCGTCT AGCCATGGCG TTAGTATGAG 100

5'-UTR341 TGTCGTGCAG CCTCCAGGAC CCCCCCTCCC GGGAGAGCCA TAGTGGTCTG 150
5'-UTR342 TGTCGTGCAG CCTCCAGGCC CCCCCCTCCC GGGAGAGCCA TAGTGGTCTG 150

5'-UTR341 CGGAACCGGT GAGTACACCG GAATTGCCAG GACGACCGGG TCCTTTCTTG 200
5'-UTR342 CGGAACCGGT GAGTACACCG GAATTGCCAG GACGACCGGG TCCTTTCTTG 200

5'-UTR341 GATCAA·CCC GCTCAATGCC TGGAGATTTG GGCGTGCCCC CGCGAGACTG 249
5'-UTR342 GATCAATCCC GCTCAATGCC TGGAGATTTG GGCGTGCCCC CGCGAGACTG 250

5'-UTR341 CTAGCCGAGT AGTGTTGGGT CGCGAAAGGC CTTGTGGTAC TGCCTGATAG 299
5'-UTR342 CTAGCCGAGT AGTGTTGGGT CGCGAAAGGC CTTGTGGTAC TGCCTGATAG 300

5'-UTR341 GGTGCTTGCG AGTGCCCCGG GAGGTCTCGT AGACCGTGCA CC          341
5'-UTR342 GGTGCTTGCG AGTGCCCCGG GAGGTCTCGT AGACCGTGCA CC          342
```

Fig. 5

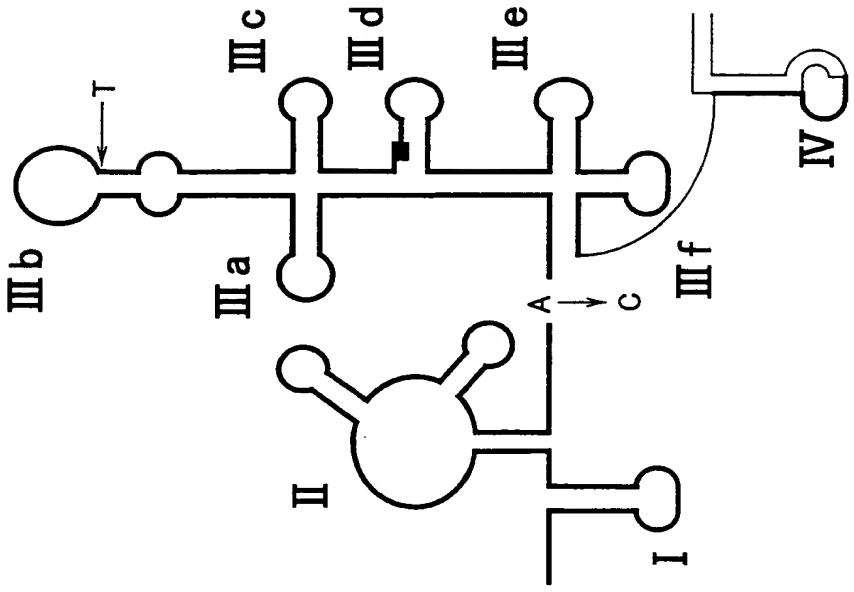

Fig. 6

replacement sheet

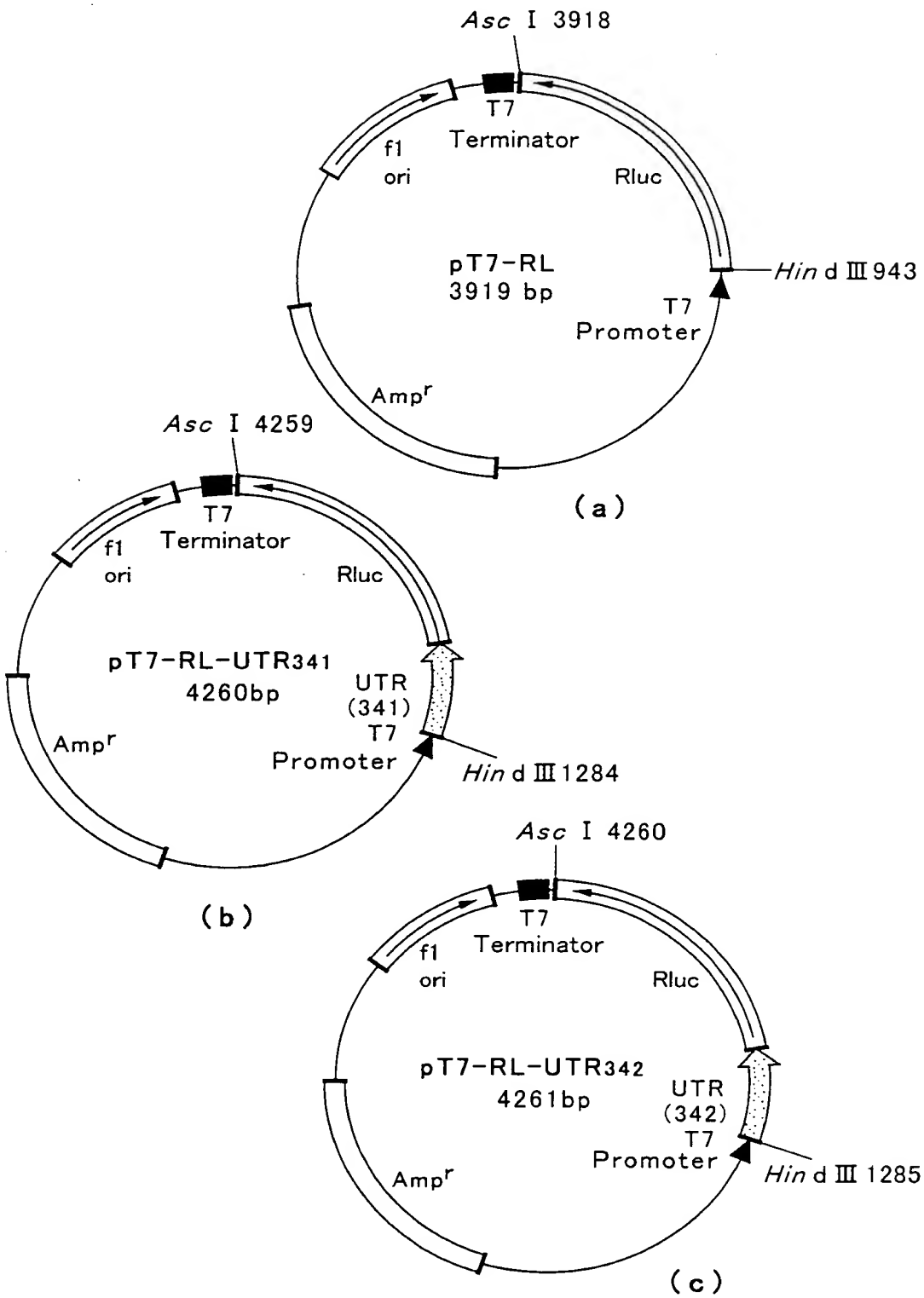
Asc I 3918
T7
Terminator
f1
ori
Rluc
pT7-RL
3919 bp
Hin d III 943
T7
Promoter
Amp^r
(a)
Asc I 4259
T7
Terminator
f1
ori
Rluc
pT7-RL-UTR341
4260bp
UTR
(341)
T7
Promoter
Amp^r
Hin d III 1284
(b)
Asc I 4260
T7
Terminator
f1
ori
Rluc
pT7-RL-UTR342
4261bp
UTR
(342)
T7
Promoter
Amp^r
Hin d III 1285
(c)

Fig. 7

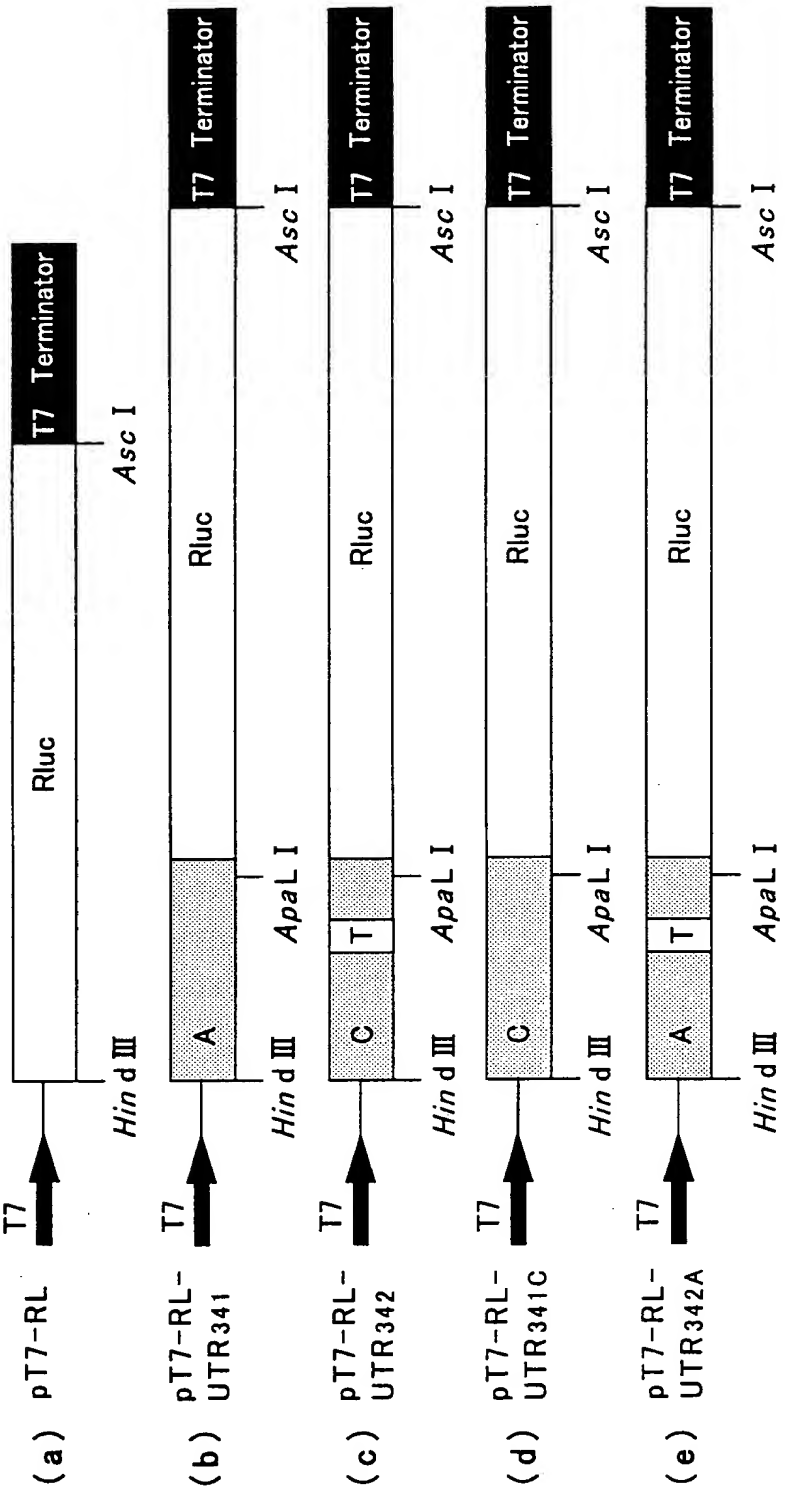
(a) pT7-RL
(b) pT7-RL-UTR341
(c) pT7-RL-UTR342
(d) pT7-RL-UTR341C
(e) pT7-RL-UTR342A
T7
Rluc
T7 Terminator
A
C
T
Hind III
ApaL I
Asc I

Fig. 8

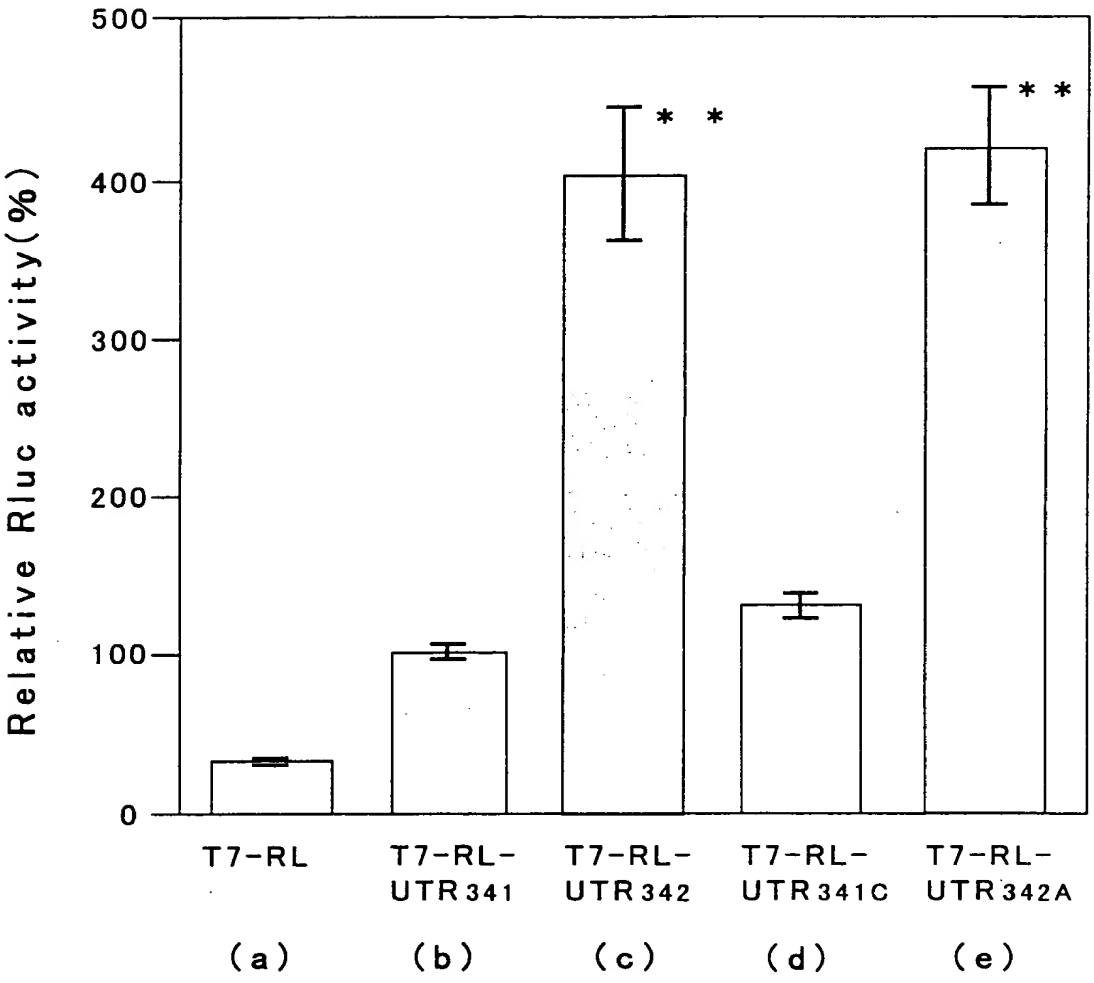
500
400
300
200
100
0
Relative Rluc activity(%)
* *
* *
T7-RL
T7-RL-UTR341
T7-RL-UTR342
T7-RL-UTR341C
T7-RL-UTR342A
(a)
(b)
(c)
(d)
(e)

Fig. 9

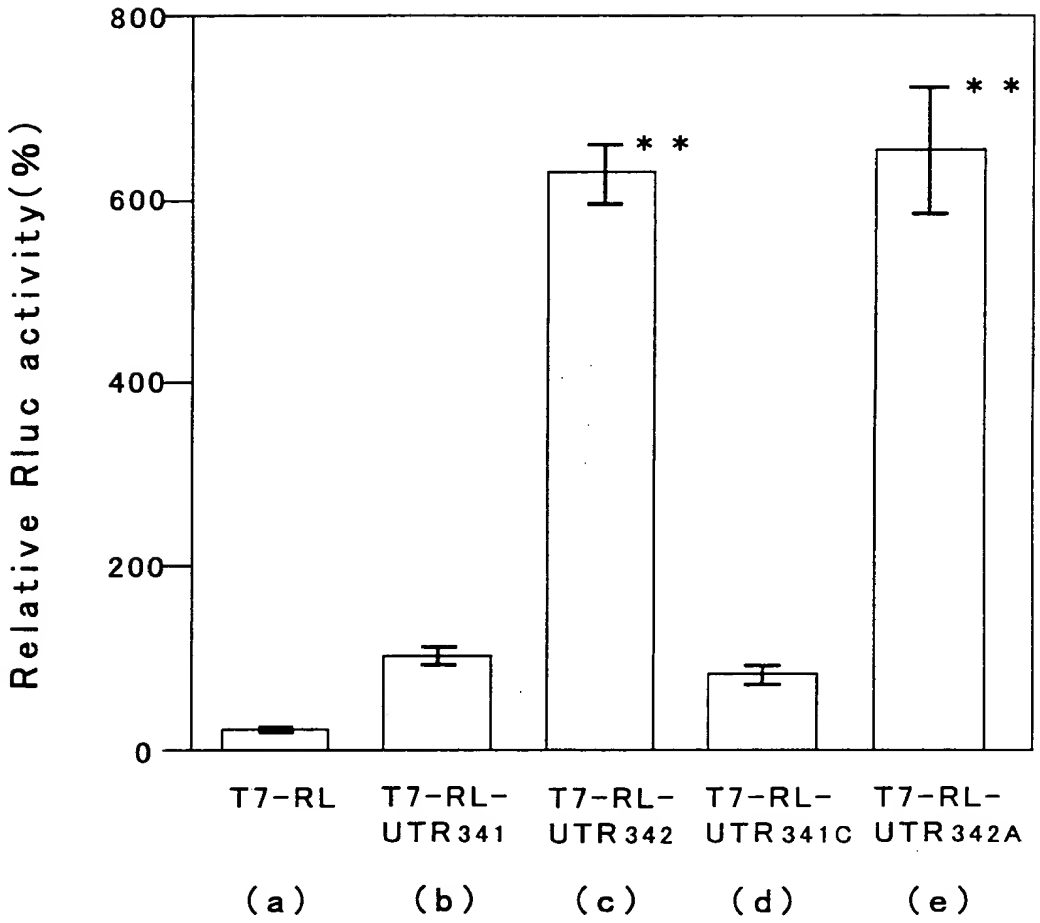
800
600
400
200
0
Relative Rluc activity(%)
* *
* *
T7-RL
T7-RL-UTR341
T7-RL-UTR342
T7-RL-UTR341C
T7-RL-UTR342A
(a)
(b)
(c)
(d)
(e)

Fig. 10

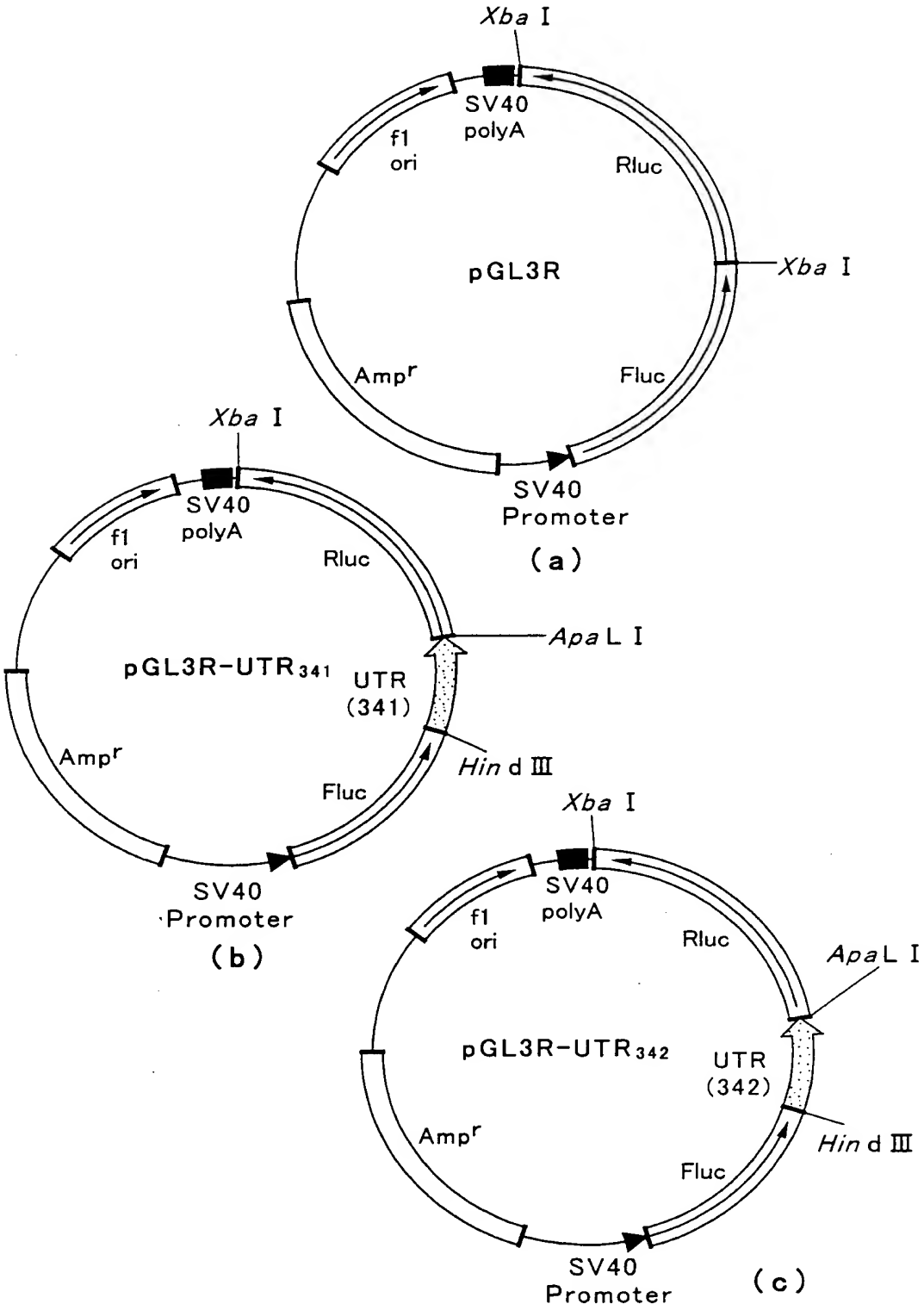
Xba I
SV40
polyA
f1
ori
Rluc
pGL3R
Xba I
Amp^r
Fluc
SV40
Promoter
(a)
Xba I
SV40
polyA
f1
ori
Rluc
ApaL I
pGL3R-UTR341
UTR
(341)
Amp^r
Hin d III
Fluc
SV40
Promoter
(b)
Xba I
SV40
polyA
f1
ori
Rluc
ApaL I
pGL3R-UTR342
UTR
(342)
Amp^r
Hin d III
Fluc
SV40
Promoter
(c)

Fig. 11

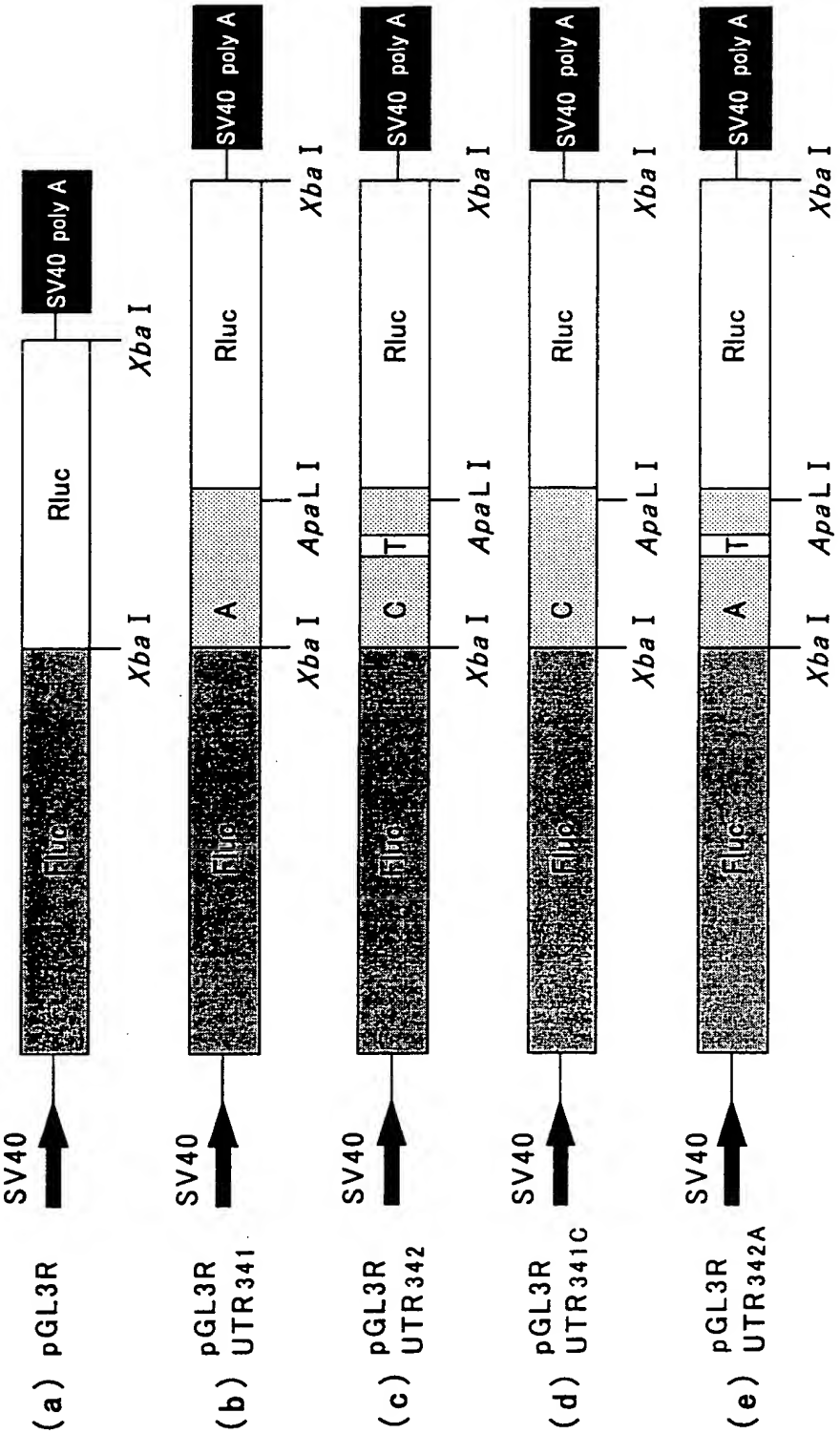
SV40
Fluc
Rluc
SV40 poly A
Xba I
ApaL I
A
C
T
(a) pGL3R
(b) pGL3R UTR341
(c) pGL3R UTR342
(d) pGL3R UTR341C
(e) pGL3R UTR342A

Fig. 12

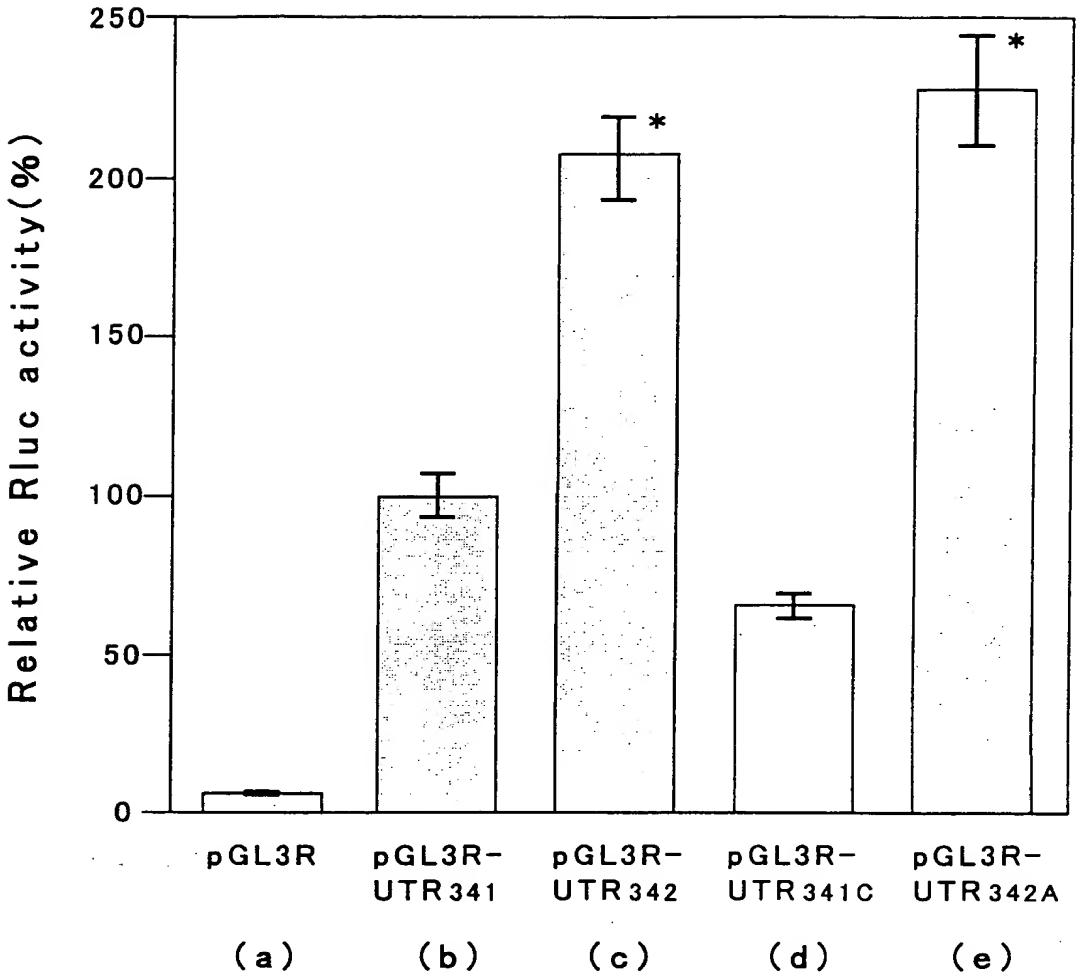
250
200
150
100
50
0
Relative Rluc activity(%)
*
*
pGL3R
pGL3R-UTR341
pGL3R-UTR342
pGL3R-UTR341C
pGL3R-UTR342A
(a)
(b)
(c)
(d)
(e)

Fig. 13